

## Purchasing Receipts

Flex 1/1/2018 6:12 PM *dart. tollis. Andrew*

**ACIER OUELLETTE INC.**

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**DELIVERY - CLIENT**

CO00096401

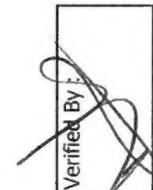
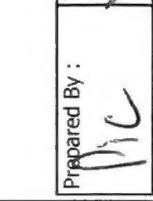
**Billed to**  
DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7  
  
**Instruction** F-M  
**Delivery Route** 5

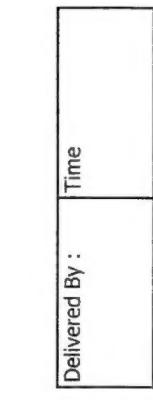
**Shipped to**  
DART AEROSPACE LTD  
, Ontario,  
Att : CHANTAL LAVOIE Tél.: 613-632-5200

| Product Description  | Weight | Qty  | UM       | PCS NB |     |     |    | Internal Use Only |   |   |     |
|--|--------|------|----------|--------|-----|-----|----|-------------------|---|---|-----|
|  |        |      |          | CMD    | EXP | B/O | IN | I                 | S | C | OUT |
| 1 ROUND SS 3 3/4 304 NS<br>RSS-334 11272<br>1 X 3" ** CERTIFICATE **<br>AC17562-TH-2018-07-09<br>Heat : 274065 | 112.65 | 3.00 | PI-\$CLB |        | 31  |     |    |                   |   |   |     |

**Total Weight (lbs) :** 112.65**NIR :** R-109516-6**Conditions :**

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc" is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :   
Verified By : 

Delivered By :   
Time

Customer's Signature

Date

Y M D





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO040267

**Supplier:** ACI001-VC  
Acer Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO040267  
**PO Date:** 6/20/18  
**Due Date:** 6/28/18  
**Purchase Order Revision:**  
**Revision Date:**  
**Ship-To Contact:** Lavoie, ChantalPhone: clavoie@dartaero.com  
**Via:** Ground  
**Pymt Terms:** Net 30  
**Freight Terms:**  
**Special Comments:** quote sou0113485



**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

## Items

| Line Item | Job | Part                   | Supplier Part No | Description  | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price              |
|-----------|-----|------------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|-----------------------------|
| 1         |     | M303R1.000             |                  | 303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft                               | Firmed | 6/28/18  | 12 ft          | 0 ft              | 12 ft   | \$8.7025/ft      | \$104.43 <i>At 08/07/08</i> |
| 2         |     | M304R3.750             |                  | 304/316 Round Bar Ø3.750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE                              | Firmed | 7/16/18  | 3 ft           | 0 ft              | 3 ft    | \$265.00/ft      | \$795.00 <i>At 08/07/11</i> |
| 3         |     | MT-A513-T-0.8750W0.120 |                  | A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120" Wall  | Firmed | 6/28/18  | 100 ft         | 0 ft              | 100 ft  | \$2.3595/ft      | \$235.95 <i>At 08/07/10</i> |
| 4         |     | MT-4140-S-0.500X3.500  |                  | AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC | Firmed | 6/28/18  | 6 ft           | 0 ft              | 6 ft    | \$18.94333/ft    | \$113.66 <i>At 08/07/11</i> |

| Items     |     |                      |                  |  |        |          |                |                   |         |                  |                |  |
|-----------|-----|----------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|----------------|--|
| Line Item | Job | Part                 | Supplier Part No | Description  | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |  |
| 5         |     | M304B0.500X012.000   |                  | 304 Bar .500 X 12.00.<br>: MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft         | Firmed | 6/28/18  | 6 ft           | 0 ft              | 6 ft    | \$86.95/ft       | \$521.70       |  |
| 6         |     | M6061T6S1.750X10.000 |                  | 6061T6 SHEET 1.750 X 10.000<br>: MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft | Firmed | 6/28/18  | 24 ft          | 0 ft              | 24 ft   | \$22.158333/ft   | \$531.80       |  |

## Line Item Note PLEASE CUT BAR IN HALF 6 FT LENGTH

|   |               |   |        |         |       |      |       |              |         |
|---|---------------|---|--------|---------|-------|------|-------|--------------|---------|
| 7 | M4140H-R0.375 | 4140 Round Bar .375<br>: AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02-A-434-BC/-A193-03- GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft | Firmed | 6/28/18 | 24 ft | 0 ft | 24 ft | \$1.92125/ft | \$46.11 |
|---|---------------|---|--------|---------|-------|------|-------|--------------|---------|

Grand Total: \$2,348.65

## Order Notes

Procurement Quality Clauses  
 A005 right of entry  
 A012 chemical and physical test report  
 A016 personnel qualification  
 A017 raw material identification (as applicable)  
 A026 certification of material conformance  
 A041 quality management system  
 A042 part notification by supplier  
 A043 retention of quality documents  
 A048 counterfeit parts avoidance, detection, mitigation and disposition program  
 A049 supplier awareness



Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 6/20/18 1:07 PM darr.lavoie.chantal

**Quotation**
**SOU0113485**
**Billed to**

 DART AEROSPACE LTD  
 1270, ABERDEEN ST.  
 HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Customer N°** CLI0001056

**Date** 2018/06/12

**Revision N°** 0

**Prices valid until** 2018/06/19

**Your Order N°**
**Processed by** Denis Quenneville

**Salesman** ERIC

**Carrier** OUELLE SDV

**Credit Terms** Net 30 Days

**Page** 1

| Product N° and description   | Weight | Qty    | U/M      | Qty    | U/M | Price    | Pcs Nb | Price | Amount   |
|--|--------|--------|----------|--------|-----|----------|--------|-------|----------|
| ROUND SS 3/4 17-4 PH H1150 NS<br>RSS-34174 9268<br>1 X 6' 2-3 DAYS   | 9.01   | 6.00   | PI_\$CLB | 6.00   | PI  | 35.30    |        |       | 211.78   |
| ROUND SS 3-1/2" DIA RANDOM H1150<br>N<br>2 X 12' R/L 2-3 DAYS  | 0.00   | 24.00  | PI       | 24.00  | UN  | 250.00   |        |       | 6 000.00 |
| <b>** PRICE VALID FOR 24 FT MIN **</b>   |        |        |          |        |     |          |        |       |          |
| ROUND SS 4 17-4 PH H1150 RANDOM<br>RSS-4174-V 8998<br>1 X 6' 2-3 DAYS                                      | 256.38 | 6.00   | PI_\$CLB | 6.00   | UN  | 352.52   |        |       | 2 115.14 |
| ROUND SS 3 3/4 17-4 PH SOL ANN RANDOM NS<br>RSS-334174-V 8850<br>1 X 4' 5-7 DAYS (OFFER SOL ANN CONDITION) | 150.20 | 4.00   | PI_\$CLB | 4.00   | UN  | 260.97   |        |       | 1 043.89 |
| ROUND 5" DIA RANDOM SS303<br>N<br>1 X 3' AMS 5640 2-3 WEEKS  | 0.00   | 1.00   | UN       | 1.00   | UN  | 1 455.00 |        |       | 1 455.00 |
| ROUND SS 1 303 (R)<br>RSS-1303 8519<br>1 X 12' R/L STOCK   | 32.04  | 12.00  | PI_\$CLB | 12.00  | UN  | 8.70     |        |       | 104.43   |
| ROUND 3-3/4" DIA SS304 RANDOM<br>N<br>1 X 3' 2-3 WEEKS   | 0.00   | 1.00   | UN       | 1.00   | UN  | 795.00   |        |       | 795.00   |
| TUBE MEC 0.875 OD X .120 (R)<br>TME-0875120 6787<br>5 X 20' R/L 2-3 DAYS                                   | 96.80  | 100.00 | PI_\$CPI | 100.00 | PI  | 2.36     |        |       | 235.95   |
| ROUND 2" DIA 4130 NORMALIZED RANDOM<br>N<br>1 X 3' AMS 6348 1 WEEK   | 0.00   | 1.00   | UN       | 1.00   | UN  | 474.95   |        |       | 474.95   |

Date :

Next Page...

**Quotation**
**SOU0113485**
**Billed to**

 DART AEROSPACE LTD  
 1270, ABERDEEN ST.  
 HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Customer N°** CLI0001056

**Date** 2018/06/12

**Revision N°** 0

**Prices valid until** 2018/06/19

**Your Order N°**
**Processed by** Denis Quenneville

**Salesman** ERIC

**Carrier** OUELLE SDV

**Credit Terms** Net 30 Days

**Page** 2

| Product N° and description   | Weight | Qty  | U/M | Qty  | U/M | Price  | Pcs Nb | Price | Amount   |
|--|--------|------|-----|------|-----|--------|--------|-------|----------|
| O-1 FLAT GROUND STOCK 1/4" X 3" X 36"<br>N<br>1 X 3' 4-6 DAYS                        | 0.00   | 1.00 | UN  | 1.00 | UN  | 95.00  |        |       | 95.00    |
| PLATE 4140 HEAT TREAT 1/2 NS<br>P4140-12H 8509<br>1 X 3-1/2" X 72" 4-6 DAYS          | 35.73  | 1.75 | PI2 | 1.75 | UN  | 64.95  |        |       | 113.66   |
| PLATE SS 1/2 SS304 HRAP RANDOM<br>PSS-12 4758<br>1 X 12" X 72" 3-4 DAYS              | 129.98 | 6.00 | PI2 | 6.00 | PI2 | 86.95  |        |       | 521.70   |
| PLATE ALU. 2-1/4" 6061-T6 RANDOM<br>N<br>1 X 4" X 144" 2-3 DAYS                      | 0.00   | 4.00 | PI2 | 4.00 | UN  | 139.50 |        |       | 558.00   |
| ALU PLATE 2 1/2 6061-T651 RANDOM<br>PAL-2126061-V 7461<br>1 X 4-1/2" X 72" 2-3 DAYS  | 80.55  | 2.25 | PI2 | 2.25 | PI2 | 182.95 |        |       | 411.64   |
| ALU PLATE 2 1/2 6061-T651 RANDOM<br>PAL-2126061-V 7461<br>1 X 1-1/4" X 144" 2-3 DAYS | 44.75  | 1.25 | PI2 | 1.25 | PI2 | 147.84 |        |       | 184.80   |
| ALU PLATE 3 6061-T651 RANDOM<br>PAL-36061-V 7482<br>1 X 5" X 72" 2-3 DAYS            | 107.13 | 2.50 | PI2 | 2.50 | PI2 | 225.95 |        |       | 564.88   |
| ALU PLATE 1 3/4 6061-T651 RANDOM<br>PAL-1346061-V 7458<br>2 X 10" X 144" 2-3 DAYS    | 50.14  | 2.00 | PI2 | 2.00 | PI2 | 132.95 |        |       | 265.90   |
| ** PRICE VALID FOR 2 PIECES **   |        |      |     |      |     |        |        |       |          |
| ALU PLATE 1 7075-T651 NS<br>PAL-17075 9889<br>1 X 8" X 144" 2-3 WEEKS                | 116.32 | 8.00 | PI2 | 8.00 | UN  | 130.95 |        |       | 1 047.60 |

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Quotation**

SOU0113485

**Billed to**

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Customer N°** CLI0001056**Date** 2018/06/12**Revision N°** 0**Prices valid until** 2018/06/19**Your Order N°****Processed by** Denis Quenneville**Salesman** ERIC**Carrier** OUELLE SDV**Credit Terms** Net 30 Days**Page** 3

| Product N° and description  | Weight | Qty   | U/M      | Qty   | U/M | Price | Pcs Nb | Price | Amount  |
|---|--------|-------|----------|-------|-----|-------|--------|-------|---------|
| FLAT 1-1/4" X 2" SS 17-4 RANDOM<br>N<br>2 X 12' R/L 7-10 DAYS         | 0.00   | 24.00 | PI       | 24.00 | UN  | 79.95 |        |       | 1918.80 |
| ** PRICE VALID FOR TOTAL TOTAL QUANTITY<br>**                         |        |       |          |       |     |       |        |       |         |
| ROUND 4140 ANNEALED 3/8 (R)<br>R4140-38A 4951<br>2 X 12' R/L 4-5 DAYS | 9.02   | 24.00 | PI-\$CLB | 24.00 | PI  | 1.92  |        |       | 46.11   |
| FUEL CHARGE<br><b>FRAIS ENERGETIQUE</b>                               |        |       | \$       |       |     |       |        |       | 3.95    |

**Total Weight (Lbs)** 1 118.05**Important**

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices.  
This offer is subject to credit approval.

Approuved and Accepted by :

**Sub-total** 18 168.18

TVH-13 · 2361.86

Date : \_\_\_\_\_

**Total (\$CAD)**

20 530.04

96399  
Dart

Chemical certification  
Certification chimique

17566 N

|  |  |  |                         |                                |                             |
|--|--|--|-------------------------|--------------------------------|-----------------------------|
| Order Num / No. Commande<br><b>AC17566</b> | Vendor / Fournisseur<br><b>46</b>                | Country of origin / Pay d'origine<br><b>SLOVENIA</b> | Date<br><b>09/10/16</b> | Heat / coulée<br><b>297080</b> | Material ID # / No. matière |
| Grade / Nuance<br><b>4140 PLT</b>          | Conditions<br><b>HEAT TREATED Q&amp;T E + VD</b> |  |                         |                                |                             |
| Shape / Forme<br><b>FLT</b>                | Size / Dimension<br><b>0.500</b>                 | Specifications<br><b>ASTM A829/A829M</b>             |                         |                                |                             |

**Chemical composition / Analyse chimique**

|             | Carbon (C)      | Silicon (Si)    | Manganese (Mn)  | Phosphorus (P)  |
|-------------|-----------------|-----------------|-----------------|-----------------|
| Mini / maxi | 0.3700 / 0.4400 | 0.1500 / 0.3500 | 0.6500 / 1.1000 | 0.0100 / 0.0190 |
| Actuel %    | <b>0.430</b>    | <b>0.224</b>    | <b>0.783</b>    | <b>0.007</b>    |
|             | Sulphur (S)     | Chromium (Cr)   | Nickel (Ni)     | Molybdenum (Mo) |
| Mini / maxi | 0.0200 / 0.0400 | 0.7500 / 1.2000 | 0.1000 / 0.2000 | 0.1500 / 0.2500 |
| Actuel %    | <b>0.001</b>    | <b>0.960</b>    | <b>0.130</b>    | <b>0.160</b>    |
|             | Cooper (Cu)     | Vanadium (V)    | Aluminum (Al)   | Tungsten (W)    |
| Mini / maxi | 0.1900 / 0.2900 | 0.0400 / 0.0500 | 0.0090 / 0.0190 | 0.0000 / 0.0000 |
| Actuel %    | <b>0.244</b>    | <b>0.039</b>    | <b>0.015</b>    | <b>0.000</b>    |
|             | Cobalt (Co)     | Titanium (Ti)   |                 |                 |
| Mini / maxi | 0.0000 / 0.0000 | 0.0000 / 0.0000 | 0.0000 / 0.0000 | 0.0000 / 0.0000 |
| Actuel %    | <b>0.000</b>    | <b>0.000</b>    | <b>0.000</b>    | <b>0.000</b>    |

**Mechanical properties / Propriétés Mécaniques**

| Yield strenght / Élasticité | Tensile / Rés. à la traction | Elongation / Allon. (%) | Red. of area / Surface (%) | RC          | Surface Hd / Dureté |
|-----------------------------|------------------------------|-------------------------|----------------------------|-------------|---------------------|
| <b>0.000</b>                | <b>PSI</b>                   | <b>0.000</b>            | <b>PSI</b>                 | <b>0.00</b> | <b>284</b>          |

**Note:**

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE  
 MINIMUM ROCKWELL C = 28 Rc  
 MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION:

PART NUMBER:

MT-4140-S-(T,TTT) x [W,WWW]  
 WHERE "T,TTT" = THICKNESS IN INCHES  
 WHERE "W,WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063  
 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500x3.500

ASTM A829 AMS 6395

| DART  |  | (DART) - DART Controls |
|---|--|------------------------|
| AEROSPACE   | REV  |                        |
| THE   |  |                        |
| AISI 4140 / 4142 STEEL SHEET OR PLATE   |  |                        |
| PART NO   | MT-4140-S  | REV                    |
| TOOL NO   | UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES.<br>TOLERANCES ARE IN THOUSANDS OF AN INCHES.<br>DIMENSIONS APPLY AFTER FURNISHING |                        |
| INITIAL AND DATE  |  |                        |
| DESIGNED BY:  | VA 2/13/2018   |                        |
| DRAWN BY:   | VA 02/13/2018  |                        |
| CHECKED BY:   | VA 02/13/2018  |                        |
| INFO REVIEW BY:   | D.D. 02/13/2018  |                        |
| APPROVED BY:  | ML 02/13/2018  |                        |
| SCALE 1:1   |  |                        |
| SHEET 1 OF 1  |  |                        |
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| A   | B  | C                      |
| 1   | 2  | 3                      |
| 4   | 5  | 6                      |
| 7   | 8  |                        |

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1-4140-5-0.500x3.500  
 DATE: 18/07/11

PO / BATCH NO.: P0070267/5090996

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 6  
 QUANTITY INSPECTED: 6  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"  
 THICKNESS RECEIVED: 0.500"  
 SHEET SIZE ORDERED: 0.500x3.500  
 SHEET SIZE RECEIVED: 0.500x3.500

| DESCRIPTION  | NCR<br>(Check<br>Y/N)                                      | COMMENTS          |
|--|--|-------------------|
| SURFACE DAMAGE                                     | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| CORRECT FINISH                                     | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| CORROSION  | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| CORRECT GRAIN DIRECTION                            | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| CORRECT MATERIAL PER M-DRAWING                     | Y <input checked="" type="radio"/> N <input type="radio"/> | <i>ASTM A829</i>  |
| CORRECT THICKNESS                                  | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| PHOTO REQUIRED                                     | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| CORRECT REF # TO LINK CERT                         | Y <input checked="" type="radio"/> N <input type="radio"/> | <i>HT: 297080</i> |
| CORRECT MATERIAL IDENTIFICATION                    | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| CORRECT M# ON THE MATERIAL                         | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y <input checked="" type="radio"/> N <input type="radio"/> |                   |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|--|-----|-----|-------|-------|---------|
| TYPE OF MATERIAL<br>SIZE OF TEST SAMPLE<br>HARDNESS / DUROMETER READING            | HRC | HRB | DUR A | DUR D | WEBSTER |
|  |     |     |       |       |         |
|  |     |     |       |       |         |

*testers located in the Quality Office*

| QC 18 INSPECTION   | ENGINEERING SIGNOFF (if required)   |
|--|-------------------------------------|
| INSPECTED BY: <u>AT</u> <u>PD</u><br>DATE: <u>18/07/11</u> | SIGNED OFF BY: _____<br>DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

96401 Dart  
VALBRUNA

SLATER STAINLESS, INC.  
2400 TAYLOR STREET WEST - PO BOX 630  
FORT WAYNE, IN 46802 USA  
PHONE 260.434.2800 - FAX 260.434.2801

Product Certification Report

Report Number: 5472742 17562N

Certified on Mar 19, 2018 Page 1 of 2 (2)

| Order I.D.      | Order Date        | Commodity Code |               |                         |
|-----------------|-------------------|----------------|---------------|-------------------------|
| OA18001213 0060 | 2/27/18           | 304D3.75RT     |               |                         |
| Dim 1           | Dim 2             | Heat I.D.      | Customer I.D. | Customer Purchase Order |
| 3.7500          | .0000             | 274065         | 0008000061    | 57897                   |
| Product Shape   | Product Surface   |                |               |                         |
| Round           | HR & Rough Turned |                |               |                         |
| Length (Inches) | Bill of Lading #  |                |               |                         |
| .000 Min.       | .000 Max.         | PL18001032/2   | 002676        | LBS                     |

VALBRUNA STAINLESS, INC.  
370 VILLAGE DRIVE  
CAROL STREAM, IL 60188  
Ship To

VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
FORT WAYNE, IN, IN 46802  
Sold To

Lifts: 0037

|                         |                         |                   |
|-------------------------|-------------------------|-------------------|
| ASTM A484-16            | Type 304/304L           | EN 10204 3.1      |
| MIL-S-862B              | *ASTM A 262-15          | ASTM A 370-17     |
| ASTM A 182-18 Chem only | ASME SA182 13 (Chem)    | ASTM A479-18      |
| ASME SA 276 13 ED       | *AMS 5647K              | SAE-AMS QQ-S-763D |
| ASTM A276-17            | ASTMA 320-17b Chem Only | ASTM A314-15      |
| AMS 5639J (CHEM)        | ASTM A473-01 (Chem)     | ASME SA479-13 ED  |

CHEMICAL ANALYSIS

| C    | Mn  | P    | S    | Si  | Cr    | Ni   | Mo  | Cu  | Co  | N    |
|------|-----|------|------|-----|-------|------|-----|-----|-----|------|
| .014 | .81 | .029 | .027 | .62 | 18.16 | 8.05 | .46 | .40 | .12 | .090 |

BRINELL Type A device E10-15a

HBW  
169

| ROOM TEMP TENSILE ASTM E8-16a |             |          |      |
|-------------------------------|-------------|----------|------|
| TS (PSI)                      | .2%YS (PSI) | %EL (4d) | %RA  |
| 90100                         | 41100       | 56.2     | 74.4 |

GRAIN SIZE ASTM E112-13

GRAIN SIZE Etchant Magnification X  
7 Oxalic 100

ASTM A262-15 PR E(A Utilized)

| OXALIC | Structure | Etchant | Magnification X | QUENCH | SENS(F) | SENS(HR) |
|--------|-----------|---------|-----------------|--------|---------|----------|
| OK     | Step      | Oxalic  | 500             | Air    | 1200    | 1.50     |

Free of mercury and low melting alloy contamination.

Solution annealed at 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

No welding or weld repair done.

Electric Furnace melted; AOD refined.

\*Certification revised at Valbruna by T. Landwehr (5/1/18)

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length, %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination, No weld repair.

Material melted in Italy, manufactured in the United States.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services Tad Landwehr

email: TLandwehr@valbruna.us

Tad Landwehr



VALBRUNA

SLATER STAINLESS, INC.

2400 TAYLOR STREET WEST - PO BOX 630  
FORT WAYNE, IN 46802 USA  
PHONE 260.434.2800 - FAX 260.434.2801

## Product Certification Report

Report Number: 5472742

Certified on Mar 19, 2018 Page 2 of 2

| Order I.D.      | Order Date        | Item/Modify Code |               |                         |
|-----------------|-------------------|------------------|---------------|-------------------------|
| OA18001213 0060 | 2/27/18           | 304D3.75RT       |               |                         |
| Dim 1           | Dim 2             | Heat I.D.        | Customer I.D. | Customer Purchase Order |
| 3.7500          | .0000             | 274065           | 0008000061    | 57897                   |
| Product Shape   | Product Surface   |                  |               | Customer Grade          |
| Round           | HR & Rough Turned |                  |               | 304/304L                |
| Length (Inches) |                   | Bill of Lading # | Weight        |                         |
| .000 Min.       | .000 Max.         | PL18001032/2     | 002676 LBS    |                         |

VALBRUNA STAINLESS, INC.  
370 VILLAGE DRIVE  
CAROL STREAM, IL 60188  
*Ship To*

VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
FORT WAYNE, IN, IN 46802  
*Sold To*

Quality system is compliant with ISO 9001:2015. Produced in accordance with EN 10204 3.1.

Date 6-27-18  
 Customer Tcler  
 These Tests Are For Material Shipped On  
 Your Order AC00017562  
 From Copper And Brass Sales, Inc.  
 INV/WO 2406058697  
 WGT 113 PCS 1  
13 Sabey QC

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services Tad Landwehr

email: [TLandwehr@valbruna.us](mailto:TLandwehr@valbruna.us)

Tad Landwehr

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR  
(NOTE: AISI 303 NOT ACCEPTABLE)

ASTM A276

M304R(D,DDD)

DIA.

WHERE "D,DDD" = DIAMETER IN INCHES

E.G. 0.75" ROUND BAR = M304R0.750

△ SPECIFICATION:  
PART NUMBER:

REF ID: A276  
M304R(D,DDD)

RELEASED  
07/23/08

|            |   |   |             |
|------------|---|---|-------------|
| B          | REFORMATTED, ADD SPECCS (ZN D6-1).<br>REF PAR 08-120A | CP  | 09.07.15    |
| A          | NEW ISSUE   | AJS   | 08.03.03    |
| REV.       | DESCRIPTION   | BY  | DATE        |
|            | <i>AJS</i>  | <i>AS</i>   | <i>DATE</i> |
| DESIGN     | <i>AJS</i>  | <b>DART AEROSPACE LTD</b>   |             |
| DRAWN      | <i>AS</i>   | HAWKESBURY, ONTARIO, CANADA   |             |
| CHECKED    | <i>AS</i>   | REV. B  |             |
| MFG. APPR. | <i>AS</i>   | DRAWING NO.   |             |
| APPROVED   | <i>AS</i>   | M304R   |             |
| DE APPR.   | <i>AS</i>   | TITLE   |             |
| DATE       | 09.07.15  | 304/316 ROUND BAR   |             |
|            |   | SCALE   | NTS         |
|            |   | COPYRIGHT © 2003 BY DART AEROSPACE LTD  |             |
|            |   | This drawing is a property of DART Aerospace Ltd. It is to be used only for the purpose for which it was issued. Any unauthorized use, reproduction or disclosure is illegal. |             |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 304 R 3.750  
 DATE: 18/07/11

PO / BATCH NO.: P0040267 / 509095

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 3'  
 QUANTITY INSPECTED: 3'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.750"  
 THICKNESS RECEIVED: 3.750"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

| DESCRIPTION  | NCR<br>(Check<br>Y/N)                                      | COMMENTS  |
|--|--|-----------|
| SURFACE DAMAGE                                     | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| CORRECT FINISH                                     | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| CORROSION  | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| CORRECT GRAIN DIRECTION                            | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| CORRECT MATERIAL PER M-DRAWING                     | Y <input checked="" type="radio"/> N <input type="radio"/> | ASTM A276 |
| CORRECT THICKNESS                                  | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| PHOTO REQUIRED                                     | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| CORRECT REF # TO LINK CERT                         | Y <input checked="" type="radio"/> N <input type="radio"/> | HT.274065 |
| CORRECT MATERIAL IDENTIFICATION                    | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| CORRECT M# ON THE MATERIAL                         | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N <input type="radio"/> |           |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y <input checked="" type="radio"/> N <input type="radio"/> |           |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|--|-----|-----|-------|-------|---------|
| TYPE OF MATERIAL<br>SIZE OF TEST SAMPLE<br>HARDNESS / DUROMETER READING            | HRC | HRB | DUR A | DUR D | WEBSTER |
|  |     |     |       |       |         |
|  |     |     |       |       |         |
|  |     |     |       |       |         |

*testers located in the Quality Office*

| QC 18 INSPECTION                                    | ENGINEERING SIGNOFF (if required)   |
|---|-------------------------------------|
| INSPECTED BY: <u>AJ D.</u><br>DATE: <u>18/07/11</u> | SIGNED OFF BY: _____<br>DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in